

AMENDMENTS TO THE ABSTRACT

Please substitute the following paragraph(s) for the abstract now appearing in the currently filed specification:

ABSTRACT

The present invention is directed to a liquid crystal display panel to which an external horizontal drive circuit is connected in a TAB, COG, or other form. The liquid crystal display panel is capable of performing aging by a substrate alone by connecting the external drive circuit. The liquid crystal display panel includes an active matrix display area, a vertical drive circuit, and a horizontal aging circuit that supplies signals to a plurality of source lines at one time provided on a substrate. The medium-sized to small-sized active matrix type liquid crystal display apparatus is used in a PDA applications, among other, and is capable of being produced at a high quality and a low cost without using a time sharing driving method. The active matrix type liquid crystal display apparatus is provided with a horizontal drive circuit as an external circuit, wherein a vertical drive circuit is formed integrally with a liquid crystal display area on a glass substrate by using low temperature PolySi TFTs. The horizontal drive circuit is connected to a liquid crystal display panel substrate by COG. Output terminals of a driver IC constituting the horizontal drive circuit and source lines Ls are in a one-to-one correspondence.